

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number  
**WO 2005/092379 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 39/395**

(21) International Application Number:  
PCT/GB2005/001085

(22) International Filing Date: 22 March 2005 (22.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0406415.0 22 March 2004 (22.03.2004) GB

(74) Agents: **FORREST, Graham** et al.; Mewburn Ellis LLP,  
York House, 23 Kingsway, London Greater London WC2B  
6HP (GB).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **THE INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL** [GB/GB]; 123 Old Brompton Road, London Greater London SW7 3RP (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SHIPLEY, Janet** [GB/GB]; Institute of Cancer Research, 15 Cotswold Road, Sutton Surrey SM2 5NG (GB). **WILLIAMSON, Daniel** [GB/GB]; Institute of Cancer Research, 15 Cotswold Road, Sutton Surrey SM2 5NG (GB). **RENSHAW, Jane** [GB/GB]; Institute of Cancer Research, 15 Cotswold Road, Sutton Surrey SM2 5NG (GB). **ORR, Roseanne** [GB/GB]; Institute of Cancer Research, 15 Cotswold Road, Sutton Surrey SM2 5NG (GB).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: MATERIALS AND METHODS FOR TREATMENT OF CANCER

(57) Abstract: Glypican 5 is shown for the first time to have a role in proliferation of cancer cells, including tumours which do not show chromosomal amplification at 13q31. The use of glypican 5 (GPC5) antagonists and binding agents for the treatment of cancer, particularly rhabdomyosarcoma and breast cancer, is disclosed.



WO 2005/092379 A2